Substitute Specification Under 37 C.F.R. 1.125

FLAW DETECTION IN DISK DRIVE USING SIGNIFICANT SAMPLES OF DATA PATTERN STORED ON DISK

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority from U.S. Provisional Application Serial No. 60/203,088, filed May 9, 2000, the disclosure of which is incorporated herein by reference in its entirety.

FIELD OF THE INVENTION

The present invention relates to flaw detection in storage media, and in particular, to flaw detection in a disk in a disk drive using samples generated by reading a data pattern on the disk.

BACKGROUND OF THE INVENTION

Disk drives store information on magnetic disks. Typically, the information is stored in concentric tracks on the disk and the tracks are divided into servo sectors that store servo information and data fields that store user data. A transducer head reads from and writes to the disk. The transducer head is mounted on an actuator arm assembly that moves the transducer head radially over the disk. Accordingly, the actuator arm assembly allows the transducer head to access different tracks on the disk. The disk is rotated by a spindle motor at high speed, allowing the transducer head to access different data fields within each track on the disk.